

TOTALVIEW

UPGRADE GUIDE



AUGUST 2001

VERSION 5.0

Copyright © 1999–2001 by Etnus LLC. All rights reserved.

Copyright © 1998–1999 by Etnus Inc. All rights reserved.

Copyright © 1996–1998 by Dolphin Interconnect Solutions, Inc.

Copyright © 1993–1996 by BBN Systems and Technologies, a division of BBN Corporation.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without the prior written permission of Etnus LLC (Etnus).

Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

Etnus has prepared this manual for the exclusive use of its customers, personnel, and licensees. The information in this manual is subject to change without notice, and should not be construed as a commitment by Etnus. Etnus assumes no responsibility for any errors that appear in this document.

TotalView and Etnus are registered trademarks of Etnus LLC. TimeScan and Gist are trademarks of Etnus LLC.

All other brand names are the trademarks of their respective holders.



Contents



1 Command Equivalences

Release 4 Major Windows and Menus	2
Release 4 Root Window Menu Equivalences	4
Release 4 Process Window Menu Equivalences	4
Release 4 Variable Window Menu Equivalences	7
Release 5 Major Windows	9
Release 5 Root Window Menus	10
Release 5 Root Window Menu Equivalences	10
Release 5 Process Window Menus	12
Release 5 Process Window Menu Equivalences	13
Release 5 Variable Window Menus	17
Release 5 Variable Window Menu Equivalences	18
Release 4 Accelerator Equivalences	19

2 Command Definitions

Release 5 Root Window Command Definitions	21
Release 5 Process Window Command Definitions	24
Release 5 Variable Window Command Definitions	36

A decorative teal dashed line that forms a large 'L' shape, starting from the top left of the 'Chapter 1' header and extending down and then right across the top of the page.

Chapter 1

Command Equivalences

A horizontal teal dashed line that spans the width of the page, positioned below the 'Command Equivalences' title.

The topics in this chapter are:

- Release 4 Major Windows and Menus
- Release 4 Root Window Menu Equivalences
- Release 4 Variable Window Menu Equivalences
- Release 5 Major Windows
- Release 5 Root Window Menus
- Release 5 Root Window Menu Equivalences
- Release 5 Process Window Menus
- Release 5 Process Window Menu Equivalences
- Release 5 Variable Window Menus
- Release 5 Variable Window Menu Equivalences
- Release 4 Accelerator Equivalences

Release 4 Major Windows and Menus

The following two figures show the Release 4 major windows and the menus contained within these windows.

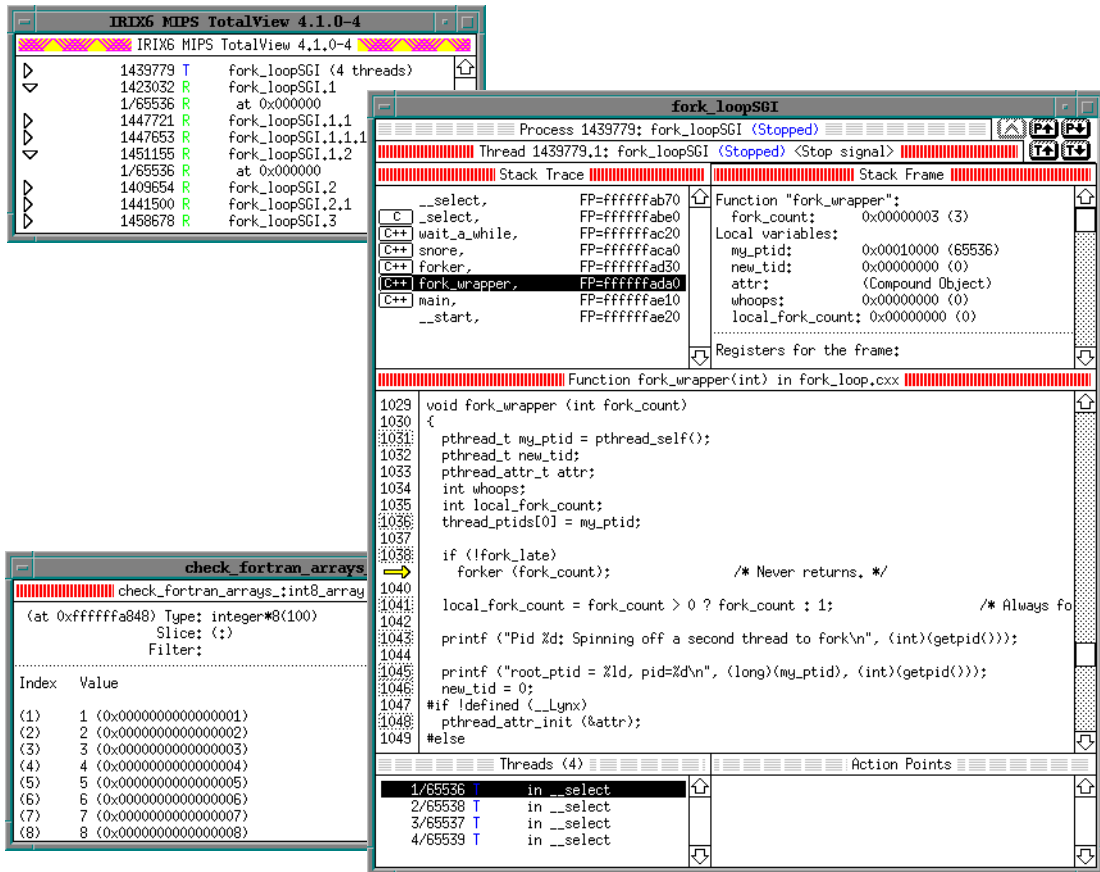


Figure 1: Release 4 Major Windows

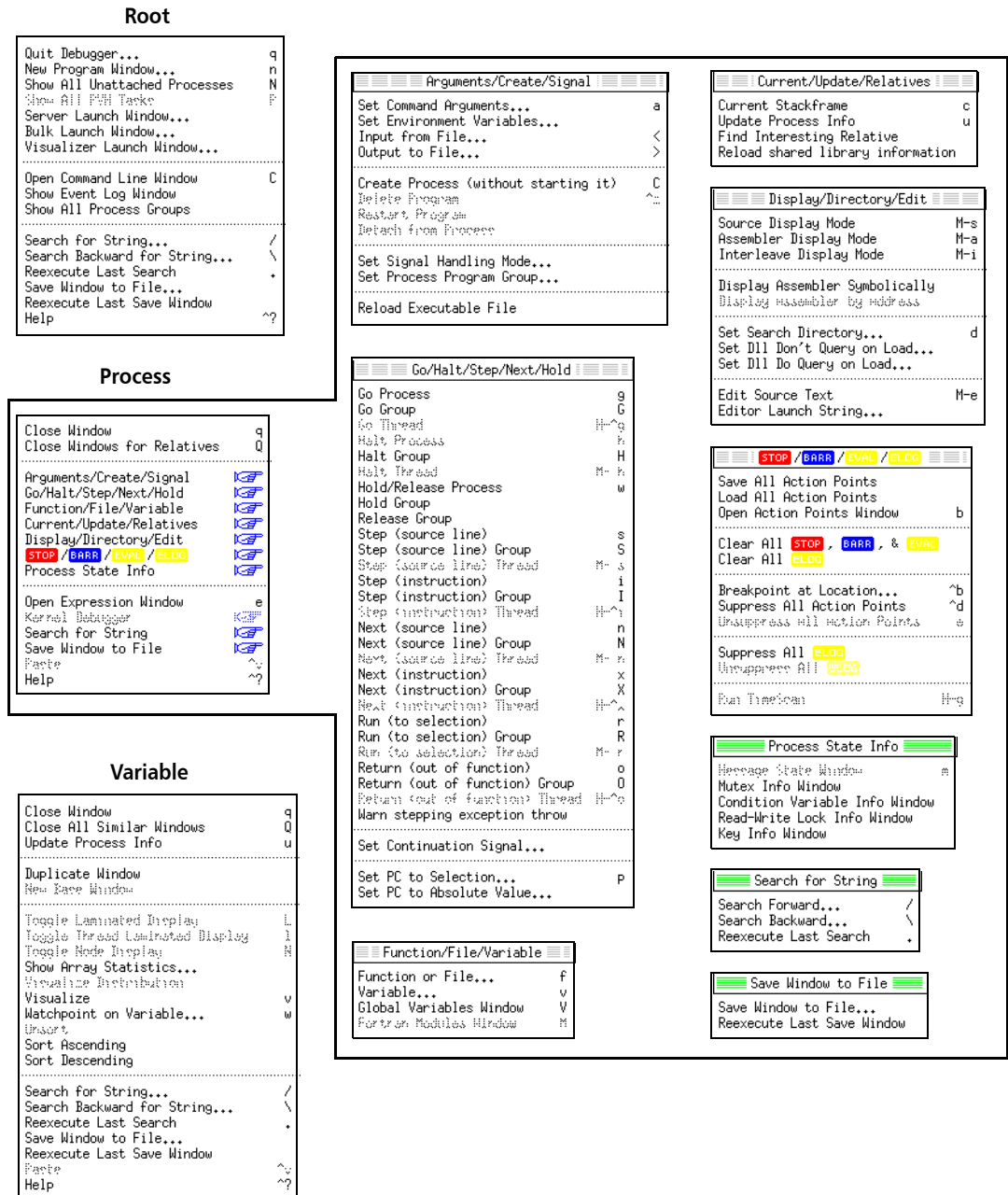


Figure 2: Release 4 Menus

Release 4 Root Window Menu Equivalences

The following table shows the commands in the Release 4 version of the Root Window and the equivalent Release 5 command.

TABLE 1: Root Window Equivalences

Release 4	Release 5
Quit Debugger...	File > Exit
New Program Window...	File > New Program
Show All Unattached Processes...	Unattached Tab
Show All PVM Tasks	Tools > PVM Tasks
Server Launch Window...	File > Preferences, Launch Strings Page
Bulk Server Launch Window...	File > Preferences, Bulk Server page
Visualizer Launch Window...	File > Preferences, Launch Strings Page
Open Command Line Window...	Tools > Command Line
Show Event Log Window...	Log Tab
Show All Process Groups...	Groups Tab
Search for Strings...	Edit > Find
Search Backward for String...	Edit > Find
Reexecute Last Search	Edit > Find Again
Save Window to File...	File > Save Pane
Reexecute Last Save Window	<i>no equivalent</i>
Help...	Help >

Release 4 Process Window Menu Equivalences

The following table shows the commands in the Release 4 version of the Process Window and the equivalent Release 5 command.

TABLE 2: Process Window Menu Equivalences

Release 4	Release 5
Close Window	File > Close
Close Window for Relatives	File > Close Relatives
Arguments/Create/Signal	
Set Command Arguments...	Process > Startup Parameters (tab1)
Set Environment Variables...	Process > Startup Parameters (tab2)
Input from File...	Process > Startup Parameters (tab3)

TABLE 2: Process Window Menu Equivalences (cont.)

Release 4	Release 5
Output to File...	Process > Startup Parameters (tab3)
Create Process (without starting it)	Process > Create
Delete Program	Group > Delete
Restart Program	Group > Restart
Detach from Process	Process > Detach
Set Signal Handling Mode...	File > Signals
Set Process Program Group...	<i>no equivalent</i>
Reload Executable File	Group > Reload Symbols
Go/Halt/Step/Next/Hold	
Go Process	Process > Go
Go Group	Group > Go
Go Thread	Thread > Go
Halt Process	Process > Halt
Halt Group	Group > Halt
Halt Thread	Thread > Halt
Hold/Release Process	Process > Hold
Hold Group	Group > Hold
Release Group	Group > Release
Step (source line)	Process > Step
Step (source line) Group	Group > Step
Step (source line) Thread	Thread > Step
Step (instruction)	Process > Step Instruction
Step (instruction) Group	Group > Step Instruction
Step (instruction) Thread	Thread > Step Instruction
Next (source line)	Process > Next
Next (source line) Group	Group > Next
Next (source line) Thread	Thread > Next
Next (instruction)	Process > Next Instruction
Next (instruction) Group	Group > Next Instruction
Next (instruction) Thread	Thread > Next Instruction
Run (to selection)	Process > Run To
Run (to selection) Group	Group > Run To
Run (to selection) Thread	Thread > Run To
Return (out of function)	Process > Out
Return (out of function) Group	Group > Out

TABLE 2: Process Window Menu Equivalences (cont.)

Release 4	Release 5
Return (out of function) Thread	Thread > Out
Warn Stepping Exception Throw	File > Preferences, Options Page
Set Continuation Signal...	Thread > Continuation Signal
Set PC to Selection...	Thread > Set PC
Set PC to Absolute Value...	<i>no equivalent</i>
Function/File/Variable	
Function or File...	View > Lookup Function
Variable...	View > Lookup Variable
Global Variables Window	Tools > Globals
Fortran Modules Window	Tools > Fortran Modules
Current/Update/Relatives	
Current Stackframe	View > Reset
Update Process Info	Window > Update
Find Interesting Relative	<i>not implemented</i>
Reload shared library information	Group > Rescan Libraries
Display/Directory/Edit	
Source Display Mode	View > Source As > Source
Assembler Display Mode	View > Source As > Assembler
Interleave Display Mode	View > Source As > Interleaved
Display Assembler Symbolically	View > Assembler > Symbolically
Display Assembler by Address	View > Assembler > By Address
Set Search Directory...	File > Search Path
Set Dll Don't Query on Load...	File > Preferences, Dynamic Libraries Page
Set Dll Do Query on Load...	File > Preferences, Dynamic Libraries Page
Edit Source Text	File > Edit Source
Editor Launch String...	File > Preferences, Launch Strings Page
Stop/Barr/Eval/Elog	
Save All Action Points	Action Point > Save All
Load All Action Points	Action Point > Load All
Open Action Points Window	<i>not implemented</i>
Clear All Stop, Barr, & Eval	Action Point > Delete All
Clear All Elog	<i>not implemented</i>
Breakpoint at Location...	Action Point > At Location
Suppress All Action Points	Action Point > Suppress All

TABLE 2: Process Window Menu Equivalences (cont.)

Release 4	Release 5
Unsuppress All Action Points	Action Point > Suppress All
Suppress All Elog	<i>not implemented</i>
Unsuppress All Elog	<i>not implemented</i>
Run TimeScan	<i>not implemented</i>
Process State Info	
Message State Window	Tools > Message Queue
Mutex Info Window	Tools > Thread Objects, Mutexes Page
Condition Variable Info Window	Tools > Thread Objects, Condition Variables Page
Read-Write Load Info Window	Tools > Thread Objects, R/W Locks Page
Key Info Window	Tools > Thread Objects, Data Keys Page
Open Expression Window	Tools > Evaluate
Kernel Debugger	<i>not implemented</i>
Search for String	
Search Forward...	Edit > Find
Search Backward...	Edit > Find
Reexecute Last Search	Edit > Find Again
Save Window to File	
Save Window to File...	File > Save Pane
Reexecute Last Save Window	<i>not implemented</i>
Paste	Edit > Paste
Help	Help

Release 4 Variable Window Menu Equivalences

The following table shows the commands in the Release 4 version of the Variable Window and the equivalent Release 5 command.

TABLE 3: Variable Window Equivalences

Release 4	Release 5
Close Window	File > Close
Update Process Info	Window > Update
Duplicate Window	Window > Duplicate
New Base Window	Window > Duplicate Base

TABLE 3: Variable Window Equivalences (cont.)

Release 4	Release 5
Toggle Laminated Display	View > Lamine > Process View > Lamine > None
Toggle Thread Laminated Display	View > Lamine > Thread View > Lamine > None
Toggle Node Display	View > Node Display
Show Array Statistics	Tools > Statistics
Visualize Distribution	<i>no equivalent</i>
Visualize	Tools > Visualize
Watchpoint on Variable	Tools > Watchpoint
Unsort	View > Sort > None
Sort Ascending	View > Sort > Ascending
Sort Descending	View > Sort > Descending
Search for String	Edit > Find
Search Backward for String	Edit > Find
Reexecute Last Search	Edit > Find Again
Save Window to File	File > Save Pane
Reexecute Last Save Window	<i>no equivalent</i>
Paste	Edit > Paste
Help	Help

Release 5 Major Windows

The following figure shows the major windows used Release 5.

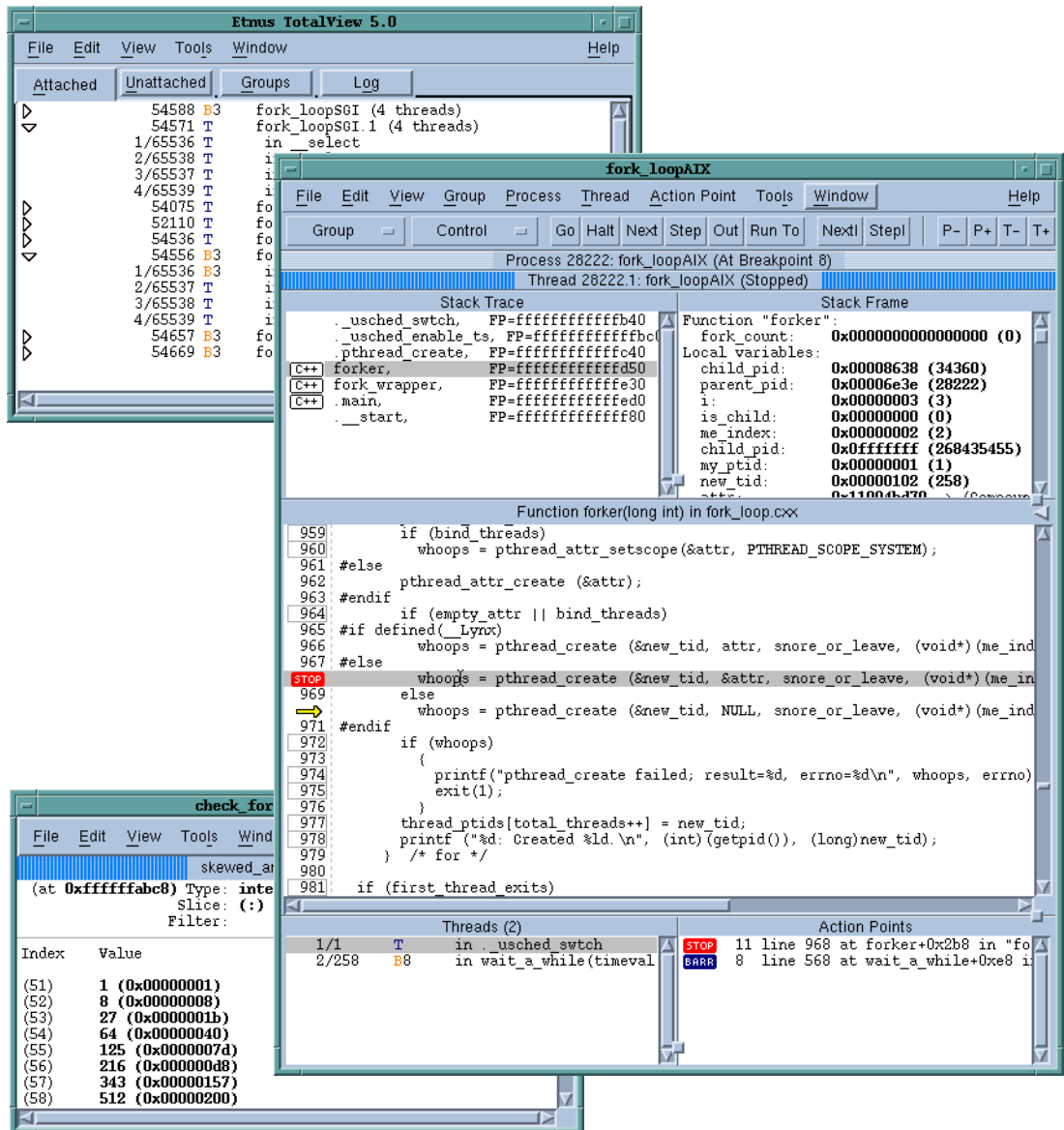


Figure 3: Release 5 Main Windows

Release 5 Root Window Menus

The following figure shows the commands in the Release 5 version of the Root Window.

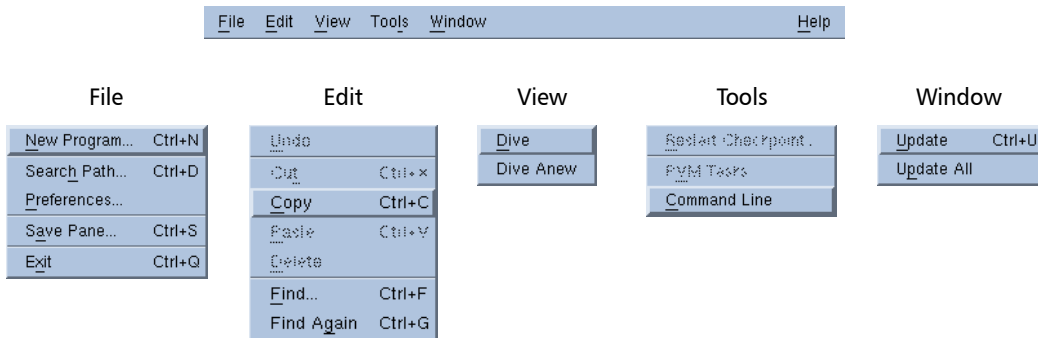


Figure 4: Release 5 Root Menus

Release 5 Root Window Menu Equivalences

The following table shows the commands in the Release 5 version of the Root Window menus and the equivalent Release 4 command.

TABLE 4: Root Window Menu Equivalences

Release 5	Release 4
Root Window	
Attached Tab	Root window
Unattached Tab	(root) Show All Unattached Processes
Groups Tab	(root) Show All Process Groups
Log Tab	(root) Show Event Log Window
File	
New Program	New Program Window
Search Path	Display/Directory/Edit > Set Search Directory
Preferences	<i>various</i>
Save Pane	Save Window to File
Exit	Exit

TABLE 4: Root Window Menu Equivalences (cont.)

Release 5	Release 4
Edit	
Undo	<i>new</i>
Cut	<i>various</i>
Copy	<i>various</i>
Paste	<i>various</i>
Delete	<i>various</i>
Find	(root) Search for Strings (root) Search Back for String
Find Again	(root) Reexecute Last Search
View	
Dive	<i>mouse</i>
Dive Anew	<i>mouse</i>
Tools	
Restart Checkpoint	<i>new</i>
PVM Tasks	Show All PVM Tasks
Command Line	Open Command Line Window
Window	
Update	Current/Update/Relatives > Current Stackframe
Update All	Current/Update/Relatives > Update Process Info

Release 5 Process Window Menus

The following figure shows the commands in the Release 5 version of the Process Window.

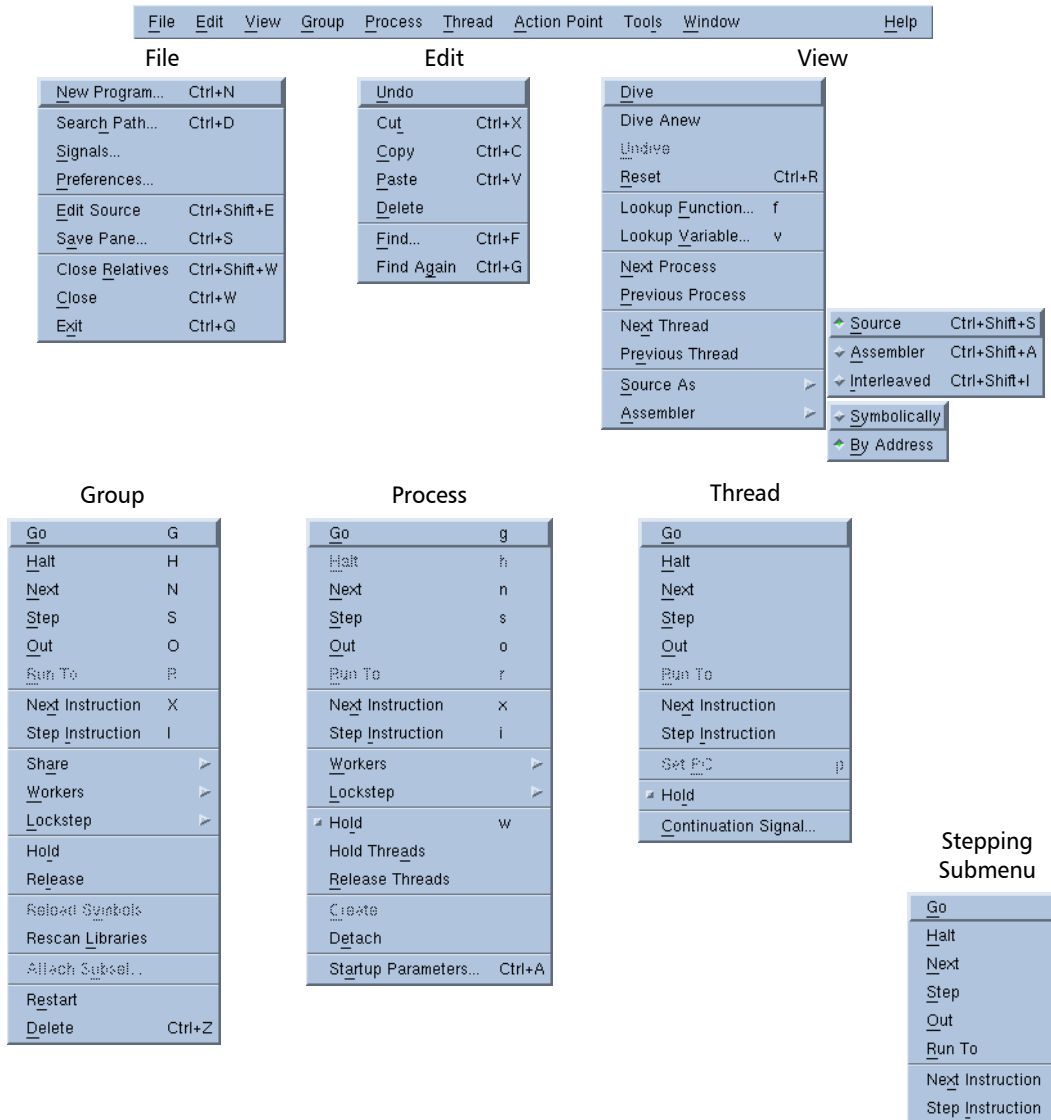


Figure 5: Release 5 Process Menus: Part 1

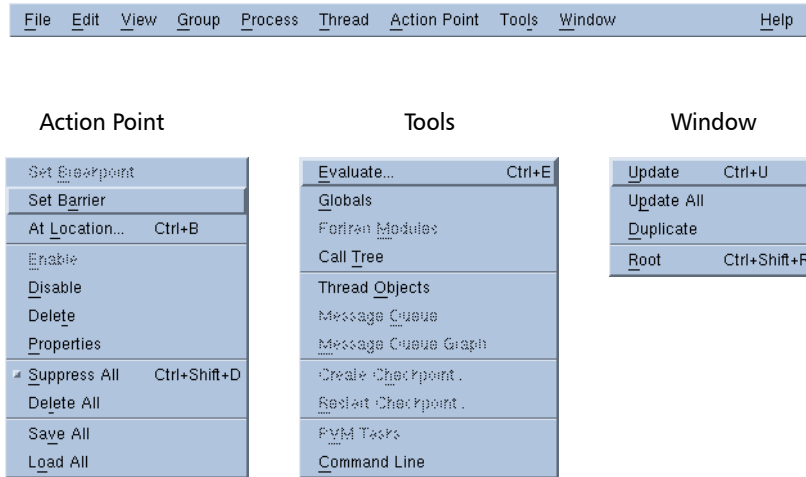


Figure 6: Release 5 Process Menus: Part 2

Release 5 Process Window Menu Equivalences

The following table shows the commands in the Release 5 version of the Process Window and the equivalent Release 4 command.

TABLE 5: Process Window Menu Equivalences

Release 5	Release 4
File	
New Program	New Program Window
Search Path	Display/Directory/Edit > Set Search Directory
Signals	Arguments/Create/Signal > Set Signal Handling Mode
Preferences	<i>new</i>
Edit Source	Display/Directory/Edit > Edit/Source/Text
Save Pane	Save Window to File
Close Relatives	Close Windows for Relatives
Close	Close Window
Exit	(root) Exit
Edit	
Undo	<i>new</i>
Cut	<i>various</i>
Copy	<i>various</i>

TABLE 5: Process Window Menu Equivalences (cont.)

Release 5	Release 4
Paste	Paste
Delete	<i>various</i>
Find	Search for String > Search Forward Search for String > Search Backward
Find Again	Search for String > Find Again
View	
Dive	<i>mouse</i>
Dive Anew	<i>mouse</i>
Undive	<i>mouse</i>
Reset	<i>new</i>
Lookup Function	Function/File/Variable > Function
Lookup Variable	Function/File/Variable > Variable
Next Process	<i>mouse</i>
Prev Process	<i>mouse</i>
Next Thread	<i>mouse</i>
Prev Thread	<i>mouse</i>
Source As > Source	Display/Directory/Edit > Source Display Mode
Source As > Assembler	Display/Directory/Edit > Assembler Display Mode
Source As > Interleaved	Display/Directory/Edit > Interleave Display Mode
Assembler > Symbolically	Display/Directory/Edit > Display Assembler Symbol.
Assembler > By Address	Display/Directory/Edit > Display Assembler by Address
Group	
Go	Go/Halt/Step... > Go Group
Halt	Go/Halt/Step... > Halt Group
Next	Go/Halt/Step... > Next (source line) Group
Step	Go/Halt/Step... > Step (source line) Group
Out	Go/Halt/Step... > Return (out of function) Group
Run To	Go/Halt/Step... > Run (to selection) Group
Next Instruction	Go/Halt/Step... > Next (instruction) Group
Step Instruction	Go/Halt/Step... > Step (instruction) Group
Share	<i>new</i>
Workers	<i>new</i>
Lockstep	<i>new</i>
Hold	Go/Halt/Step... > Hold Group

TABLE 5: Process Window Menu Equivalences (cont.)

Release 5	Release 4
Release	Go/Halt/Step... > Release Group
Reload Symbols	Arguments/Create/Signal > Reload Executable File
Rescan Libraries	Current/Update/Relatives > Reload shared library info
Restart	Arguments/Create/Signal > Restart
Delete	Arguments/Create/Signal > Delete Program
Processes	
Go	Go/Halt/Step... > Go Process
Halt	Go/Halt/Step... > Halt Process
Next	Go/Halt/Step... > Next (source line)
Step	Go/Halt/Step... > Step (source line)
Out	Go/Halt/Step... > Return (out of function)
Run To	Go/Halt/Step... > Run (to selection)
Next Instruction	Go/Halt/Step... > Next (instruction)
Step Instruction	Go/Halt/Step... > Step (instruction)
Workers	<i>new</i>
Lockstep	<i>new</i>
Hold	Go/Halt/Step... > Hold/Release Process
Hold Threads	<i>new</i>
Release Threads	<i>new</i>
Create	Arguments/Create/Signal > Create Process
Detach	Arguments/Create/Signal > Detach from Process
Startup	Arguments/Create/Signal > Set Command Args Arguments/Create/Signal > Set Environ Variables Arguments/Create/Signal > Input from File Arguments/Create/Signal > Out to File
Thread	
Go	Go/Halt/Step... > Go Thread
Halt	Go/Halt/Step... > Halt Thread
Next	Go/Halt/Step... > Next (source line) Thread
Step	Go/Halt/Step... > Step (source line) Thread
Out	Go/Halt/Step... > Return (out of function) Thread
Run To	Go/Halt/Step... > Run (to selection) Thread
Next Instruction	Go/Halt/Step... > Next (instruction) Thread
Step Instruction	Go/Halt/Step... > Step (instruction) Thread
Set PC	Go/Halt/Step... > Set PC to Selection

TABLE 5: Process Window Menu Equivalences (cont.)

Release 5	Release 4
Hold	<i>new</i>
Continuation Signal	Go/Halt/Step... > Continuation Signal
Action Point	
Set Breakpoint	<i>mouse</i>
Set Barrier	<i>mouse</i>
At Location	Stop/Barr/Eval/Elog Save > Breakpoint at Location
Enable	<i>mouse</i>
Disable	<i>mouse</i>
Delete	<i>mouse</i>
Properties	<i>new</i>
Suppress All	Stop/Barr/Eval/Elog Save > Suppress All Stop/Barr/Eval/Elog Save > Unsuppress All
Delete All	Stop/Barr/Eval/Elog Save > Clear All
Save All	Stop/Barr/Eval/Elog Save > Save All
Load All	Stop/Barr/Eval/Elog Save > Load All Action Points
Tools	
Evaluate	Open Expression Window
Globals	Function/File/Variable > Global Variables Window
Fortran Modules	Function/File/Variable > Fortran Modules Window
Call Tree	<i>new</i>
Thread Objects	Process State Info > Message State Window Process State Info > Mutex Info Window Process State Info > Condition Variable Info Window Process State Info > Read-Write Load Info Window Process State Info > Key Info Window
Message Queue	<i>new</i>
Message Queue Graph	<i>new</i>
Create Checkpoint	<i>new</i>
Restart Checkpoint	<i>new</i>
Attach/Detach Relatives	<i>new</i>
PVM Tasks	(root) Show All PVM Tasks
Command Line	(root) Open Command Line Window
Window	
Update	Current/Update/Relatives > Update
Update All	Current/Update/Relatives > Update Process Info

TABLE 5: Process Window Menu Equivalences (cont.)

Release 5	Release 4
Duplicate	<i>new</i>
Root	<i>new</i> —Ctrl+Shift+R

Release 5 Variable Window Menus

The following figure lists the commands in the Release 5 version of the Variable Window.

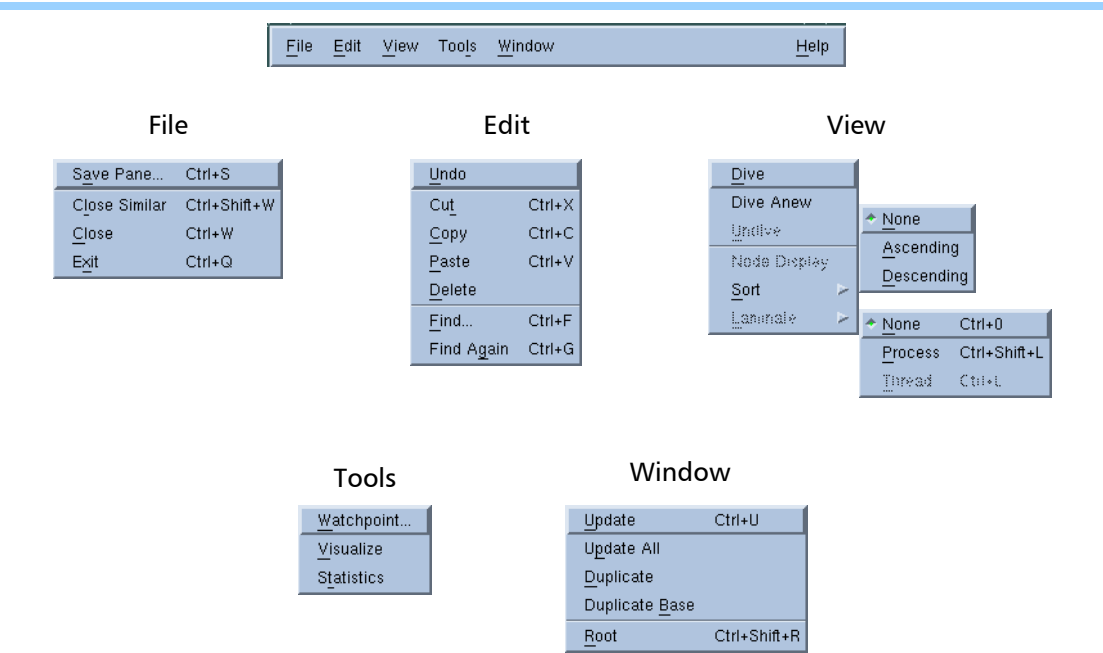


Figure 7: Release 5 Variable Menus

Release 5 Variable Window Menu Equivalences

The following table shows the commands in the Release 5 version of the Variable Window and the equivalent Release 4 command.

TABLE 6: Variable Window Menu Equivalences

Release 5	Release 4
File	
Save pane	Save Window to File
Close Similar	Close All Similar Windows
Close	Close Window
Exit	(root) Exit
Edit	
Undo	<i>new</i>
Cut	<i>various</i>
Copy	<i>various</i>
Paste	Paste
Delete	<i>various</i>
Find	(root) Search for String (root) Search Backward for String
Find Again	(root) Reexecute Last Search
View	
Dive	<i>mouse</i>
Dive Anew	New Base Window
Undive	
Node Display	Toggle Node Display
Sort > None	Unsort
Sort > Ascending	Sort Ascending
Sort > Descending	Sort Descending
Laminated > None	Toggle Laminated Display
Laminated > Process	Toggle Laminated Display
Laminated > Thread	Toggle Thread Laminated Display
Tools	
Watchpoint	Watchpoint on Variable
Visualize	Visualize
Statistics	Show Array Statistics

TABLE 6: Variable Window Menu Equivalences (cont.)

Release 5	Release 4
Window	
Update	<i>new</i>
Update All	Update Process Info
Duplicate	Duplicate Window
Duplicate Base	New Base Window
Root	<i>mouse</i>

Release 4 Accelerator Equivalences

The following table shows all Version 4 accelerators. If equivalent accelerators exist, these are also shown.

Rel 4. Command	Rel 4. Accelerator	Rel 5. Accelerator	Rel 5. Command
Input from File	<		
Search for String	/	Ctrl+ F	Edit > Find
Search Backward for String	\	Ctrl+ F	Edit > Find
Reexecute Last Search	.	Ctrl+ G	Edit > Find Again
Paste	Ctrl+ v	Ctrl+ V	Edit > Paste
Help	Ctrl+ ?		
Set Commands Arguments	a	Ctrl+ A	Process > Startup Parameters
Assembler Display Mode	Meta+ a	Shift+Ctrl+ A	View > Source As > Assembler
Open Action Points Window	b		
Breakpoint at Location	Ctrl+ b	Ctrl+ b	Action Point > At Location
Current Stackframe	c	Ctrl+ R	View > Reset
Open Command Line Window (Root)	C		
Create Process (without starting it)	C		
Set Search Directory	d	Ctrl+ D	File > Search Path
Suppress All Action Points	Ctrl+ d	Shift+Ctrl+ D	Action Point > Suppress All
Open Expression Window	e	Ctrl+ E	Tools > Evaluate
Unsuppress all action points	Ctrl+ e		
Edit Source Text	Shift+Ctrl+ e	Shift+Ctrl+ E	Find > Edit Source
Function of File	f	f	View > Lookup Function
Go Process	g	g	Process > Go
Go Group	G	G	Group > Go
Go Thread	Meta+Ctrl+ g		
Halt Process	h	h	Process > Go
Halt Group	H	H	Group > Halt
Step (instruction)	i	i	Process > Next Instruction
Step (instruction) Group	I	I	Group > Next Instruction

Rel 4. Command	Rel 4. Accelerator	Rel 5. Accelerator	Rel 5. Command
Interleave Display Mode	Meta+ i	Shift+Ctrl+ I	View > Source As > Interleaved
Step (instruction) Thread	Meta+Ctrl+ i		
Toggle Thread Laminated Display	I	Ctrl+ I	
Toggle Laminated Display	L	Shift+Ctrl+ L	
Halt Thread	Meta+Ctrl+ h	Ctrl+ 0	
Message State Window	m		
Fortran Modules Window	M		
New Program Window (Root Window)	n	Ctrl+ N	File > New Program
Next (source line)	n	n	Process > Next
Next (source line) Group	N	N	Group > Next
Next (source line) Thread	Meta+Ctrl+ n		
Show all Unattached Processes (Root)	N		
Toggle Node Display (Variable Window)	N		
Quit Debugger (Root Window)	q	Ctrl+ Q	File > Exit
Close Window (other windows)	q		
Close Windows for Relatives (Process)	Q	Shift+Ctrl+ W	File > Close Relatives
Close All Similar (Variable Window)	Q	Shift+Ctrl+ W	File > Close Similar
Return	o	o	Process > Out
Return Group	O	O	Group > Out
Return Thread	Meta+Ctrl+ o		
Show all PVM Tasks (Root Window)	P		
Set PC to Selection (Root Window)	P	p	Thread > Set PC
Run (to selection)	r	r	Process > Run To
Run (to selection) Group	R	R	Group > Run To
Run (to selection) Thread	Meta+Ctrl+ r		
Step (source line) s	s	s	Process > Step
Step (source line) Group	S	S	Group > Step
Source Display Mode	Meta+ s	Shift+Ctrl+ S	View > Source As > Source
Step (source line) Thread	Meta+Ctrl+ s		
Update Process Info	u	Ctrl+ U	Update
Variable (Process Window)	v	v	View > Variable Window
Visualize (Variable Window)	v		
Global Variables Window	V		
Hold/Release Process (Process Window)	w	w	Process Hold
Watchpoint (Variable Window)	w		
Next (instruction) x	x	x	Process > Next Instruction
Next (instruction) Group	X	X	Group > Next Instruction
Next (instruction) Thread	Meta+Ctrl+ x		
Delete Program	Ctrl+ z	Ctrl+ z	Group > Delete

Command Definitions

The sections within this chapter are:

- Release 5 Root Window Command Definitions
- Release 5 Process Window Command Definitions
- Release 5 Variable Window Command Definitions

Release 5 Root Window Command Definitions

The following table contains simple definitions of the commands found with the Release 5 Root Window.

TABLE 7: Root Window Command Definitions

Release 5

Root Window

Attached Tab

Shows the processes to which TotalView is attached.

Unattached Tab

Shows the processes to which TotalView could attach.

Groups Tab

Shows the groups into which your processes and threads are organized.

Log Tab

Shows a listing of debugging events.

TABLE 7: Root Window Command Definitions (cont.)

Release 5**File****New Program**

Opens a new process.

Search Path

Sets the directory search path for locating source files.

Preferences

Defines TotalView behaviors.

Save Pane

Writes the contents of one of the Root Window's pages to a file or pipes the contents to a program.

Exit

Exits from TotalView.

Edit**Undo**

Undoes the effect of the current editing change.

Cut

Copies the current selection to the clipboard and then deletes it. This is always grayed out in the Root Window.

Copy

Copies the current selection to the clipboard.

Paste

Pastes the contents of the clipboard at the current cursor location.

Delete

Deletes the selected text without copying it to the clipboard. This is always grayed out in the Root Window.

Find

Searches for text in the current page.

TABLE 7: Root Window Command Definitions (cont.)

Release 5**Find Again**

Executes the search defined by the previous **Find** command starting at the current cursor position.

View**Dive**

Opens the selected process in a Process Window. If the window already exists for the process, this window is popped to the top of the display.

Dive Anew

Opens the selected process in a new Process Window. A new window is always opened, even if a window already exists for the process.

Tools**Restart Checkpoint**

Restart a previously checkpointed process. (SGI only)

PVM Tasks

Displays information about PVM tasks and hosts.

Command Line

Opens an xterm window that you can use to interact with the CLI.

Window**Update**

Updates the display of the Root Window.

Update All

Updates the display of all open windows.

Release 5 Process Window Command Definitions

The following table contains simple definitions of the commands found with the Release 5 Process Window.

TABLE 8: Process Window Command Definitions

Release 5

File

New Program

Opens a new process.

Search Path

Sets the directory search path for locating source files.

Signals

Tells TotalView how it will handle signals sent to your program.

Preferences

Opens a dialog box into which you can enter global and local preferences.

Edit Source

Opens a window containing the editor named in your **Source Code Editor** launch string (See **File > Preferences**) or in your shell's **EDITOR** variable.

Save Pane

Writes the contents of one of the Process Window's panes to a file or pipes it to a program.

Close Relatives

Closes this Process Window and all its related windows.

Close

Closes this Process Window.

Exit

Exits from TotalView.

TABLE 8: Process Window Command Definitions (cont.)

Release 5

Edit

Undo

Undoes the effect of the current editing change.

Cut

Copies the current selection to the clipboard and then delete it.

Copy

Copies the current selection to the clipboard.

Paste

Pastes the contents of the clipboard into the selected window at the current location of the text or graphics cursor.

Delete

Deletes the selection without copying it to the clipboard.

Find

Searches for text in the current page

Find Again

Executes the search defined by the previous **Find** command starting at the current cursor position.

View

Dive

Dives on the selected item.

Dive Anew

Dives on the selected item. TotalView displays the result in a new window.

Undive

Returns to the stack frame from which you entered the current display.

Reset

Resets the source view to the "home" position; that is, this command undives the stack, and displays the PC.

TABLE 8: Process Window Command Definitions (cont.)

Release 5

Locate Function

Searches for a function or file and displays it in a Process Window.

Locate Variable

Searches for a variable and displays it in a Variable Window.

Next Process

Displays the next process in the currently active Process Window.

Previous Process

Displays the previous process.

Next Thread

Displays the next thread.

Previous Thread

Displays the previous thread.

Source As > Source

Sets the display mode so that your program's source code is displayed.

Source As > Assembler

Sets the display mode so that assembler code created by your compiler is displayed.

Source As > Interleaved

Sets the display modes so that the compiler-created assembler and the source code from which it is generated are shown together.

Assembler > Symbolically

When assembler code is displayed, displays the assembler code symbolically.

Assembler > By Address

When assembler code is displayed, displays the assembler code by address.

TABLE 8: Process Window Command Definitions (cont.)

Release 5

Group

Go

Continues the control group.

Halt

Halts the control group.

Next

Next steps the control group.

Step

Steps the control group.

Out

Continues the control group until execution control returns from current function.

Run To

Continues the control group until execution control reaches the selected statement.

Next Instruction

Group next steps an assembler instruction.

Step Instruction

Group steps an assembler instruction.

Share > Go

Allows the share group to execute.

Share > Halt

Halts the share group.

Share > Next

Next steps the share group contained within the control group by one statement.

Share > Step

Steps the share group contained within the control group by one statement.

TABLE 8: Process Window Command Definitions (cont.)

Release 5

Share > Out

Continues the share group contained within the control group until execution control returns from the current function.

Share > Run To

Continues the share group contained within the control group until execution control reaches the selected statement.

Share > Next Instruction

Next steps the share group contained within the control group by an assembler instruction.

Share > Step Instruction

Steps the share group contained within the control group by an assembler instruction.

Workers > Go

Allows the current workers group to execute.

Workers > Halt

Halts the current workers group.

Workers > Next

Next steps the current workers group one statement.

Workers > Step

Steps the current workers group one statement.

Workers > Out

Continues the current workers group until execution control returns from the current function.

Workers > Run To

Continues the current workers group until execution control reaches the selected statement.

Workers > Next Instruction

Next steps the current workers group by an assembler instruction.

Workers > Step Instruction

Steps the current workers group by an assembler instruction.

TABLE 8: Process Window Command Definitions (cont.)

Release 5**Lockstep > Go**

Tells the current lockstep group to execute.

Lockstep > Halt

Halts the current lockstep group.

Lockstep > Next

Next steps the current lockstep group one statement.

Lockstep > Step

Steps the current lockstep group one statement.

Lockstep > Out

Continues the lockstep group until execution control returns from the current function.

Lockstep > Run To

Continues the current lockstep group until execution control reaches the selected statement.

Lockstep > Next Instruction

Next steps the current lockstep group by an assembler instruction.

Lockstep > Step Instruction

Steps the current lockstep group by an assembler instruction.

Hold

Holds the current control group.

Release

Releases the current control group.

Reload Symbols

Reloads the currently selected (and terminated) program.

Rescan Libraries

Reloads the shared library information for the selected process.

Attach Subset

Names the process's to which TotalView will attach.

TABLE 8: Process Window Command Definitions (cont.)

Release 5**Restart**

Deletes the control group, then reloads it.

Delete

Deletes (kills) the current control group.

Process**Go**

Continues the threads within a process.

Halt

Halts all threads within a process.

Next

Next steps all threads within a process.

Step

Steps all threads within a process.

Out

Continues all threads in a process until execution control returns from the current function.

Run To

Continues all threads in a process until execution control reaches the selected line.

Next Instruction

Next steps the threads in a process by an assembler instruction.

Step Instruction

Steps the threads in a process by an assembler instruction.

Workers > Go

Continues all threads in the current workers group contained within a process.

Workers > Halt

Halts all threads in the current workers group contained within a process.

TABLE 8: Process Window Command Definitions (cont.)

Release 5**Workers > Next**

Next steps all threads in the current workers group contained within a process.

Workers > Step

Steps all threads in the current workers group contained within a process one statement.

Workers > Out

Continues all threads in the current workers group contained within a process until execution returns from the current function.

Workers > Run To

Continues all threads in the current workers contained within a process until execution reaches the selected statement.

Workers > Next Instruction

Next steps all threads in the current workers contained within a process by an assembler instruction.

Workers > Step Instruction

Steps all threads in the current workers contained within a process by an assembler instruction.

Lockstep > Go

Allows all threads in the current lockstep contained within a process to execute.

Lockstep > Halt

Halts all threads in the current lockstep contained within a process.

Lockstep > Next

Next steps all threads in the current lockstep contained within a process by one statement.

Lockstep > Step

Steps all threads in the current lockstep contained within a process by one statement.

TABLE 8: Process Window Command Definitions (cont.)

Release 5

Lockstep > Out

Continues all threads in the current lockstep contained within a process until execution returns from the current function.

Lockstep > Run To

Continues all threads in the current lockstep contained within a process until execution reaches the selected statement.

Lockstep > Next Instruction

Next steps all threads in the current lockstep contained within a process by an assembler instruction.

Lockstep > Step Instruction

Steps all threads in the current lockstep contained within a process by an assembler instruction.

Hold

Holds and releases the current process.

Hold Threads

Holds all threads in the current process.

Release Threads

Releases all threads held using the **Hold Threads** command.

Create

Creates a process without starting it.

Detach

Detaches from the selected process.

Startup Parameters

Sets the command arguments, environment variables, and input and output file names.

TABLE 8: Process Window Command Definitions (cont.)

Release 5**Thread****Go**

Continues the current thread.

Halt

Stops the current thread's execution.

Next

Next steps the current thread.

Step

Steps the current thread.

Out

Continues the current thread until execution returns from the current function.

Run To

Continues the current thread until execution reaches the selected line.

Next Instruction

Next steps the current thread over an assembler instruction.

Step Instruction

Steps the current thread over an assembler instruction.

Set PC

Sets the program counter to a value.

Hold

Holds and releases the current thread.

Continuation Signal

Sends a signal to the current thread.

TABLE 8: Process Window Command Definitions (cont.)

Release 5

Action Point**Set Breakpoint**

Sets an action point on the selected line.

Set Barrier

Sets a barrier action point on the selected line.

At Location

Sets an action point at a named location.

Enable

Enables (activates) the selected and previously disabled action point located.

Disable

Disables (deactivates) the action point at the selected line.

Delete

Deletes the currently selected action point.

Properties

Sets an action point properties and indicate if the action point is a breakpoint, evaluation point, or barrier point.

Suppress All

Suppresses (deactivates) or unsuppress (activates) all of this process's action points.

Delete All

Removes all action points in the active Process Window.

Save All

Writes information about all current action points (except watch-points) to a file.

Load All

Reads and sets the action point information previously written to a file.

TABLE 8: Process Window Command Definitions (cont.)

Release 5**Tools****Evaluate**

Evaluates the expression you enter.

Globals

Lists information about all this process's global variables. Clicking on a variable opens a separate Variable Window for the item.

Fortran Modules

Displays a list of your process's modules. Clicking on a module's name opens a Variable Window containing information about the module's variables.

Call Tree

Displays the call tree—the routines called and being called—for the selected process.

Thread Objects

Shows information about a process's message state, mutexes, data keys, and condition variables. This window and its contents aren't available on all architectures. Diving an item displays a Variable Window for this item.

Message Queue

Displays message queue information for the selected process. Diving on items displays a Variable Window for this item.

Message Queue Graph

Shows a graphic display of message queue data. Clicking on links in this window displays a Message Queue Window.

Create Checkpoint

Creates a checkpoint file. This information allows you to restart a process at a later time. (SGI only)

Restart Checkpoint

Restarts a previously checkpointed process. (SGI only)

PVM Tasks

Displays information about PVM tasks and hosts.

TABLE 8: Process Window Command Definitions (cont.)

Release 5**Command Line**

Opens the CLI Window.

Window**Update**

Updates the display of this Process Window.

Update All

Updates the display of all open windows.

Duplicate

Creates a duplicate copy of this Process Window.

Root

Displays (uncovers) the Root Window.

Release 5 Variable Window Command Definitions

The following table contains simple definitions of the commands found with the Release 5 Variable Window.

TABLE 9: Variable Window Command Definitions

Release 5**File****Save Pane**

Writes this window's contents to a file or pipes this information to a program.

Close Similar

Closes this and all similar Variable Windows.

Close

Closes this Variable Window.

Exit

Exits from TotalView.

TABLE 9: Variable Window Command Definitions (cont.)

Release 5

Edit

Undo

Undoes the effect of the current editing change.

Cut

Copies the current selection to the clipboard and then deletes it.

Copy

Copies the current selection to the clipboard.

Paste

Pastes the contents of the clipboard at the cursor's location.

Delete

Deletes the current selection without copying it to the clipboard.

Find

Searches for text in the current page.

Find Again

Executes the search defined by the previous **Find** command starting at the current cursor position.

View

Dive

Dives (replaces) the contents of this Variable Window with information about the selected element.

Dive Anew

Creates a new Variable Window containing information about the selected element.

Undive

Changes the window's display to what it was before the last dive.

Sort > None

Redisplays an array in its unsorted, original order.

Sort > Ascending

Sorts the displayed elements into ascending order.

TABLE 9: Variable Window Command Definitions (cont.)

Release 5**Sort > Descending**

Sorts the displayed elements into descending order.

Laminate > None

Turns off lamination.

Laminate > Process

Shows a variable's values as they are set in all processes.

Laminate > Thread

Shows a variable's values as they are set in all threads.

Tools**Watchpoint**

Sets a watchpoint at the variable's memory location.

Visualize

Displays information about the current array within the TotalView Visualizer.

Statistics

Shows statistical information about the current array.

Window**Update**

Updates the current Variable Window.

Update All

Updates the display of all open windows.

Duplicate

Creates another Variable Window that is identical to the current window.

Duplicate Base

Creates another Variable Window that is identical to the current window except that it does not have a dive stack.

Root

Displays (uncovers) the Root Window.

- Command Definitions
- Release 5 Variable Window Command Definitions

